TEJUS
CONSULTANTS

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s KRIDL
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Date of Testing	:	28-06-2021
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	10mm.TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	10	0.618	535	578	19
1	12	0.889	544	596	20
1	16	1.580	531	573	18

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

Consultant's Representative

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	28-06-2021
Period of Soaking	24 hours	Date of Testing	29-06-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	648	670	
B	Weight of oven - dry sample gm.	640	638	660	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1686	1682	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.678	2.647	2.672	2.666
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.563	1.567	1.515	1.548

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Test Report on Cement	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	29-06-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	43 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	405 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.90%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction and Improvements of Tiolets in Ward No . 08 ,
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	PCC	
Sample Location	At Site/Plant		Date of Sampling	29-06-2021	
			Date of Testing	29-06-2021	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	174	174	5.80	94.20	90 - 100
2.36 mm	302	476	15.87	84.13	75 - 100
1.18 mm	405	881	29.37	70.63	55 - 90
0.600 mm	495	1376	45.87	54.13	35 -59
0.300 mm	820	2196	73.20	26.80	8-30
0.150 mm	615	2811	93.70	6.30	0 - 10
Pan	189	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	29-06-2021
		Date of Testing	29-06-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	90	90	3.00	97.00	95-100
20.00mm	1250	1340	44.67	55.33	30-70
10.00mm	950	2290	76.33	23.67	10-35
4.75mm	620	2910	97.00	3.00	0-5
Pan	90	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M25 (Footing Concrete)
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-07-2021	15-07-2021	7 days	8.123	22500	385	17.11	17.30
2	08-07-2021	15-07-2021	7 days	8.133	22500	388	17.24	
3	08-07-2021	15-07-2021	7 days	8.132	22500	395	17.56	

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Drain
Location/Source	At Plant/site	Date of Sampling	18-07-2021
Period of Soaking	24 hours	Date of Testing	19-07-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		680	670	667	
B	Weight of oven - dry sample gm.		668	660	656	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1705	1700	1695	
E	Bulk specific gravity	B / (C + A - D)	2.672	2.694	2.656	2.674
G	Absorption (%)	(A - B) *100 / B	1.796	1.515	1.677	1.663

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Test Report on Cement

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	19-07-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	376 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	25.00%	

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	**Fine aggregate (River Sand/M sand)**	**Proposed Use**	Drain	
Sample Location	At Plant/site	**Date of Sampling**	19-07-2021	
		Date of Testing	19-07-2021	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	176	176	5.87	94.13	90 - 100
2.36 mm	280	456	15.20	84.80	75 - 100
1.18 mm	520	976	32.53	67.47	55 - 90
0.600 mm	560	1536	51.20	48.80	35 -59
0,300 mm	680	2216	73.87	26.13	8-30
0.150 mm	580	2796	93.20	6.80	0 - 10
Pan	204	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete	
Sample Location	At Plant	Date of Sampling	19-07-2021	
		Date of Testing	19-07-2021	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	270	270	2.70	97.30	95 - 100
10.00 mm	4908	5178	51.78	48.22	25 - 55
4.75 mm	4132	9310	93.10	6.90	0 - 10
Pan	690	10000			

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	Plant/site	**Date of Sampling**	19-07-2021
		Date of Testing	19-07-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	**100**
12.5	570	570	5.70	94.30	**90-100**
10.0	2356	2926	29.26	70.74	**40-85**
4.75	6425	9351	93.51	6.49	**0-10**
Pan	649	10000			

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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Test Report on Compressive strength of Solid Block

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

AE
Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	23-07-2021	23-07-2021	80000	406.00	5.08	5.05	5.00
2	23-07-2021	23-07-2021	80000	402.00	5.03		
3	23-07-2021	23-07-2021	80000	404.00	5.05		

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Test Report on Compressive strength of Solid Block

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Cross sectional area	80000mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	23-07-2021	23-07-2021	80000	410.00	5.13	5.11	5.00
2	23-07-2021	23-07-2021	80000	408.00	5.10		
3	23-07-2021	23-07-2021	80000	408.00	5.10		

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20 Sump Raft
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-07-2021	29-07-2021	7 days	8.123	22500	300	13.33	13.47
2	22-07-2021	29-07-2021	7 days	8.133	22500	305	13.56	
3	22-07-2021	29-07-2021	7 days	8.132	22500	304	13.51	

Assistant Executive Engineer
Project Division
Yelahanka Zone 02
BBMP, Bangalore

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M25 (Plinth Beam Concrete)
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-07-2021	29-07-2021	7 days	8.125	22500	388	17.24	17.38
2	22-07-2021	29-07-2021	7 days	8.138	22500	387	17.20	
3	22-07-2021	29-07-2021	7 days	8.134	22500	398	17.69	

Asst. Engineer
Project of Division-52
BBMP, Bangalore - 52

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE
(IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Drain
Location/Source	At Plant/site	Date of Sampli	01-08-2021
Period of Soaking	24 hours	Date of Testin	02-08-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		678	654	666	
B	Weight of oven - dry sample gm.		668	644	656	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1685	1685	1695	
E	Bulk specific gravity - 92	B / (C + A - D)	2.493	2.639	2.667	2.600
G	Absorption (%)	(A - B) *100 / B	1.497	1.553	1.524	1.525

Note:
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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M25 For Column
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26-07-2021	02-08-2021	7 days	8.123	22500	388	17.24	17.05
2	26-07-2021	02-08-2021	7 days	8.133	22500	382	16.98	
3	26-07-2021	02-08-2021	7 days	8.132	22500	381	16.93	

Assistant Executive Engineer
Project Division
Dasarahalli Zone
Bangalore - 92

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TEJUS CONSULTANTS

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TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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Test Report on Cement

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	02-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	48 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	384 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	25.00%	

Executive Engineer
Project Division
Yelahanka Zone
MP, Bangalore

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000**	gms			
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Drain	
Sample Location	At Plant/site		**Date of Sampling**	02-08-2021	
			Date of Testing	02-08-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	240	240	8.00	92.00	**90 - 100**
2.36 mm	285	525	17.50	82.50	**75 - 100**
1.18 mm	510	1035	34.50	65.50	**55 - 90**
0.600 mm	550	1585	52.83	47.17	**35 -59**
0.300 mm	630	2215	73.83	26.17	**8-30**
0.150 mm	550	2765	92.17	7.83	**0 - 10**
Pan	235	3000			**-**
Remarks :			Satisfactory / Not Satisfactory		

Assistant Executive Engineer
Electrical Division
BESCOM, Bangalore - 92

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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete	
Sample Location	At Plant	**Date of Sampling**	02-08-2021	
		Date of Testing	02-08-2021	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	280	280	2.80	97.20	95 - 100
10.00 mm	4915	5195	51.95	48.05	25 - 55
4.75 mm	4200	9395	93.95	6.05	0 - 10
Pan	605	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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